

What is claimed is:

1. A fluid recirculating cleaning device, said device comprising:

an exhaust port defining a flow path therethrough;
a suction port defining a flow path therethrough;
a vacuum blower motor operative to draw fluid into said suction port and expel fluid out of said exhaust port; and
a redirection member positioned in the path of fluid expelled from said exhaust port for reflecting expelled fluid toward said suction port.

2. The fluid recirculating device as recited in claim 1, wherein said redirection member is positioned approximately 1 to 2 inches away from said suction port in the path of fluid expelled from said exhaust port.

3. The fluid recirculating device as recited in claim 1, wherein said redirection member has an arcuate shape.

4. The fluid recirculating device as recited in claim 1, wherein said redirection member is configured to reflect fluid expelled from said exhaust port into a generally opposite direction.

5. The fluid recirculating device as recited in claim 4, wherein fluid in said exhaust port travels in a generally opposite direction than fluid in said suction port.

6. The fluid recirculating device as recited in claim 1, wherein said exhaust port has a reduced dimension toward said redirection member.

7. The fluid recirculating device as recited in claim 1, wherein the cross-sectional area of said exhaust port and said suction port are generally rectangular.

8. The fluid recirculation device as recited in claim 7, wherein the cross-sectional area of said suction port is greater than the cross-sectional area of said exhaust port.

9. The fluid recirculation device as recited in claim 1, wherein said redirection member has a major dimension which is substantially coexistent with a major dimension of said exhaust port.

10. A fluid recirculating cleaning device, said device comprising:

an exhaust port defining a flow path therethrough, said exhaust port having a redirection portion proximate to the distal end of said flow path;

a suction port defining a flow path therethrough;

a vacuum blower motor operative to draw fluid into said suction port and expel fluid out of said exhaust port; and

said redirection member being configured to reflect fluid expelled from said exhaust port toward said suction port such that the reflected fluid agitates the surface to be cleaned.

11. The fluid recirculating cleaning device as recited in claim 10, wherein said redirection member is curved about an axis approximately perpendicular to the path of fluid expelled from said exhaust port.

12. The fluid recirculating cleaning device as recited in claim 11, wherein said redirection member has approximately a 180 degree curvature.

13. The fluid recirculating cleaning device as recited in claim 10, wherein said flow path in said exhaust port is defined by an exhaust wall and a common wall and said flow path in said suction port is defined by a suction wall and said common wall.

14. The fluid recirculating cleaning device as recited in claim 13, wherein said suction wall rides on the surface to be cleaned.

15. The fluid recirculating cleaning device as recited in claim 14, wherein said redirection portion is integrally formed in said exhaust wall.

16. A fluid recirculating cleaning device, said device comprising:

an exhaust port defining a flow path therethrough;

a suction port defining a flow path therethrough, said flow path in said suction port being separated by an approximately 45 degree angle from the flow path in said exhaust port; and

a vacuum blower motor operative to draw fluid into said suction port and expel fluid out of said exhaust port.

17. The fluid recirculating cleaning device as recited in claim 16, wherein said suction port has a distal end which is recessed from said exhaust port.

18. The fluid recirculating cleaning device as recited in claim 17, wherein said exhaust port rides on the surface to be cleaned.

19. The fluid recirculating cleaning device as recited in claim 18, wherein said suction port does not contact the surface to be cleaned.

20. The fluid recirculating cleaning device as recited in claim 17, wherein said flow path in said suction port proximate said distal end is approximately perpendicular to the surface to be cleaned.